

ARIZONA

Science and Engineering Profile

	Arizona	U.S.	Rank		Arizona	U.S.	Rank
Doctoral scientists, 1993	4,849	430,332	27	Total R&D performance, 1993 (millions)	\$1,608	\$161,427	24
Doctoral engineers, 1993	1,323	81,293	18	Industry R&D, 1993 (millions)	\$1,042	\$117,622	22
S&E doctorates awarded, 1993	409	25,409	21	Academic R&D, 1993 (millions)	\$311	\$19,489	21
of which, in engineering	26%	22%		of which, in life sciences	39%	55%	
in physical sciences	21%	15%		in physical sciences	27%	11%	
in life sciences	19%	24%		in engineering	14%	16%	
S&E postdoctorates, 1993				Higher education current-fund			
in doctorate-granting institutions	380	34,394	24	expenditures, 1993 (millions)	\$1,728	\$163,994	30
S&E graduate students, 1993				Number of SBIR awards, 1990-93	205	13,995	18
in doctorate-granting institutions	8,176	438,128	19	Patents issued to state residents, 1994	929	56,039	19
Population, 1994 (000s)	4,075	260,341	23	Gross state product, 1992 (billions)	\$74.1	\$5,994.1	26
Civilian labor force, 1994 (000s)	1,988	131,013	23	of which, agriculture	2%	2%	
Personal income per capita, 1994	\$19,001	\$21,809	38	manufacturing, mining, construction	19%	23%	
Federal spending				transportation, communication, utilities	8%	9%	
Total expenditures 1994 (millions)	\$19,011	\$1,284,896	23	wholesale and retail trade	17%	16%	
R&D obligations 1993 (millions)	\$535	\$65,394	22	finance, insurance, real estate	18%	18%	
				services	21%	20%	
				government	15%	12%	

Rankings and totals are based on data for the 50 States and D.C.

Federal Obligations for Research and Development in Arizona by Agency and Performer: Fiscal Year 1993

[Thousands of dollars]

	Total	Federal intramural	All FFRDCs	Industrial firms	Universities & colleges	Other nonprofits	State & local government	State rank
Total, all agencies	535,274	206,067	27,545	147,469	143,332	8,590	2,271	22
Department of Agriculture	16,532	11,858	0	0	4,674	0	0	28
Department of Commerce	454	0	0	10	130	0	314	36
Department of Defense	325,456	172,476	0	135,507	17,453	20	0	20
Department of Energy	5,030	0	0	350	4,680	0	0	40
Dept. of Health & Human Services	77,914	9,081	0	3,474	57,091	7,370	898	27
Department of the Interior	11,931	8,071	0	1,196	2,537	35	92	19
Department of Transportation	1,504	300	0	96	141	0	967	33
Environmental Protection Agency	2,737	0	0	0	2,737	0	0	23
Nat'l Aeronautics & Space Admin.	35,320	4,281	0	6,523	23,562	954	0	16
National Science Foundation	58,396	0	27,545	313	30,327	211	0	10
State rank	22	13	15	23	24	28	29	

Federal R&D obligations are as reported by funding agencies.

FFRDC = federally funded research and development center

SBIR = small business innovation research

na = not applicable

Prepared by the National Science Foundation/Division of Science Resources Studies. Data compiled from numerous sources.